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COMMUNICABLE DISEASE CENTER

# and Market Disease Center Community of the Community of t



Vol. 14, No. 27

WEEKLY REPORT

> Week Ending July 10, 1965

## U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

# PUBLIC HEALTH SERVICE

#### BOTULISM - Idaho

Three cases of botulism, possibly related to a commercially packaged luncheon meat, have been reported from Twin Falls, Idaho. The three patients were members of a teen-age concert group of 50 persons travelling by chartered bus from the State of Washington to New York City. The group arrived in Twin Falls on Tuesday, June 22. One patient developed the illness on June 24 and the other two became ill on June 25.

All three patients had gastrointestinal discomfort, diplopia, muscular weakness and flushing of the cheeks. Two of them experienced dryness of the mouth and also suffered respiratory difficulty. A listing of the cases appears at right.

	lytic	e Po		elits		TENTS	965	BHARIES		225 226 236
Case No	Age	Sex	Onset	Incubation Period	Abdominal Pain	Diplopia	Flushed Cheeks	Dryness of Mouth	Respiratory Distress	Other Muscular Weakness
1	16	М	June 24	23-25 hrs.	X	X	\	X	X	X
2	13	F	June 25	48 hrs.	X	\ \	× .	×	х	X
3	16	М	June 25	52 hrs.	×	λ	x	-	-	x

(Continued on page 226)

## Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

	27th WEEK	ENDED	WEDIAN.	CUMULA	ATIVE, FIR	ST 27 WEEKS
DISEASE	July 10, 1965	July 4, 1964	MEDIAN 1960 — 1964	1965	1964	MEDIAN 1960 – 1964
Aseptic meningitis	3	33 7 5 30 24	33 8 5 	756 123 85 801 424	796 200 143 973 553	734 212 222 
Hepatitis, infectious including serum hepatitis	2,599 42 — —	552 4,680 35 4 4 - -	552 6,087 28 20 14	18,644 229,783 2,004 24 18 6	22,000 445,950 1,634 48 37 8	24,185 372,229 1,303 227 162
Streptococcal Sore Throat and Scarlet fever Tetanus Tularemia Typhoid fever Rabies in Animals	2	3,987 5 11 13	3,424  15 70	248,745 119 123 192 2,503	255,384 128 155 189	210,661  261 2.110

### Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:		Rabies in man:	1
Botulism: Idaho-3	11	Smallpox: · · · · · · · · · · · · · · · · · · ·	
Leptospirosis:		Trichinosis: Mich1, NY Upstad >-1, Pa1, Calif1	65
Malaria: Mass1, Conn1		Typhus —	
Plague:		Murine: D.C1	
Psittacosis:	21	Rky. Mt. Spotted: N.J2, Kans1, Va2, N.C3,	99
Cholera:	1	Tenn3, W. Va1	

#### BOTULISM - Idaho (Continued)

The respiratory weakness experienced by patient 1 was severe enough to require a tank respirator. An additional tank respirator was sent from another community for patient 2; however, her condition improved and the respirator was not required. Routine hematologic studies and urinalyses were normal in all cases. Serum anticholinesterase determinations were normal for cases 1 and 2. Botulinus antitoxin was administered to cases 1 and 2 on June 26 and June 27. All 3 patients began to show improvement by June 27 and were completely asymptomatic by June 30.

During their visit to Twin Falls, all members of the concert group lived in a number of private homes. Since none of the 3 patients resided in the same house, they did not consume any common breakfast foods. The entire concert group of 50 ate their evening meals as a single group, the food being supplied by various Twin Falls families. None of the patients ate items of food at these dinners other than those foods eaten by other members of the group who did not become ill. Each of the resident hosts, however, prepared sack lunches for the tour members staying in their household.

On Wednesday, June 23, patient 3 shared his sack lunch with patients 1 and 2. This lunch consisted of two luncheon meat sandwiches, potato chips, celery, radishes, bananas and milk. Patient 3, who developed mild symptoms, ate only one bite of a half-sandwich and passed it on to patient 2 because it did not "taste right". The remainder of that half sandwich was consumed by patient 2, who also noted a peculiar taste. One and one-half of the sandwiches in the sack were consumed by patient 3, who developed the most severe illness. He noted a "mouldy" taste.

Two slices of luncheon meat were in each of the sandwiches eaten. The two remaining slices from a 6 slice vacuum-sealed package were in a sandwich prepared for another tour member residing in the same household as patient 3. This member did not eat the luncheon meat sandwich and did not become ill.

The luncheon meat suspected of being the source of infection was sold in a vacuum-sealed plastic package by a supermarket, under its own label. This luncheon meat is prepared by a major meat-packing corporation. It consists of scraps of pork, pork heart, pork tongue, spices and preservatives; it is cooked and canned in 10-1/2 pound loaves. The cans are then shipped to a local affiliate in Idaho where the cans are opened under refrigeration, the meat sliced and placed in 6-slice vacuumsealed packages. The packages are required to be kept under refrigeration from the time of canning until sold in the supermarket. Shipment of the package suspected of contamination was direct from the affiliate plant in Idaho to the supermarket in Twin Falls. So far as could be determined, the package suspect in this outbreak was properly refrigerated at all times.

The exact mode of contamination of the luncheon meat could not be ascertained. Laboratory studies on samples of the luncheon meat from other cans and vacuum-sealed packages in the same consignment as the suspected package are currently in progress at the Communicable Disease Center and the Food and Drug Administration laboratories in Washington, D.C.

(Reported by Dr. John A. Mather, Director of Preventive Medicine, Idaho Department of Health and Dr. Luther Thompson, South Central District Health Officer and a CDC Field Epidemiologist.)

## PARALYTIC POLIOMYELITIS - 1964

Weekly poliomyelitis case reports are received at the Communicable Disease Center from state and local health departments through the National Morbidity Reporting System. In addition, since 1958 surveillance forms pertaining to each case have been submitted to the Poliomyelitis Surveillance Unit, a preliminary form which supplies basic epidemiologic data, and a follow-up form which includes information on the extent of residual paralysis and the results of laboratory studies. The incidence of cases of poliomyelitis with residual paralysis at 60 days has been taken as the most reliable index available to measure the national status of poliomyelitis. <sup>1</sup>

During 1964 the final count of 91 paralytic poliomyelitis cases in the United States was the lowest yet recorded. This figure is less than one third of the total reported in 1963, the previous record low year (Figure 1). The distribution of cases was relatively uniform through-

out 1964 and did not show a seasonal increased incidence in the summer and fall months as in previous years (Figure 1 and 2, page 227)

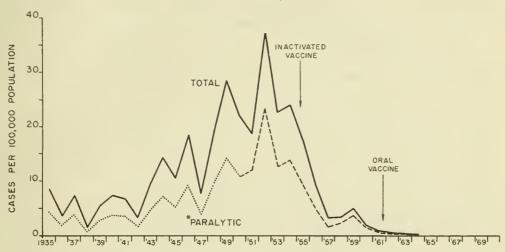
Geographically, the cases of paralytic poliomyelitis during 1964 were scattered. The 91 cases were reported from 83 counties; no county reported more than 2 cases during any month (Figure 3, page 230).

In Table I the 91 paralytic cases are classified as to age and inactivated poliomyelitis vaccine status. There were 38 cases (42 percent) in the 0-4 age group, and 23 (25 percent) in the 5 to 14 year age groups. As in preceding years the majority of cases were not adequately vaccinated. Two thirds of the total had never received any inactivated poliomyelitis vaccine and only 12.5 percent had received 4 or more doses of inactivated poliomyelitis vaccine.

Table II classifies the 91 cases by age and oral poliomyelitis vaccine status. A total of 8 cases occurred (Continued on page 228)

FIGURE 1





\*PARALYTIC CASES PRIOR TO 1951 ASSUMED TO BE 50% OF TOTAL. SINCE 1951, CASES REPORTED AS UNSPECIFIED WERE PRORATED AMONG PARALYTIC AND NONPARALYTIC CASES

SOURCE National Marbidity Reports

FIGURE 2

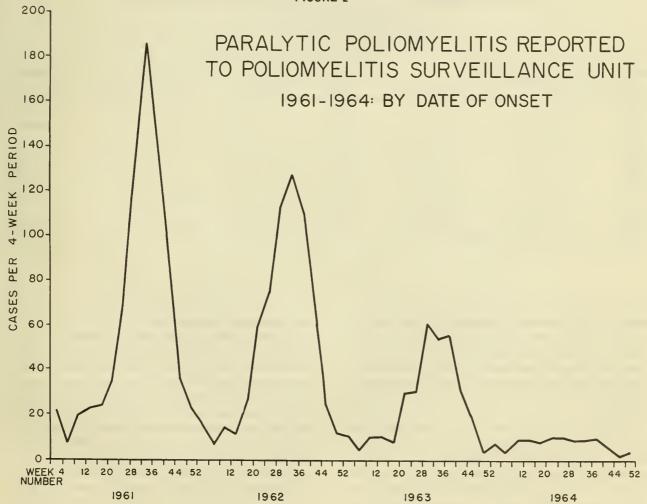


TABLE I

PARALYTIC POLIOMYELITIS BY AGE GROUP AND INACTIVATED VACCINATION HISTORY UNITED STATES, 1964

Age		Doses	of Ina	ctivated	l Vaccin	e	Total	Devent	D
Group	0	1V	2V	3V	4+V	Unk.	Cases	Percent	Deaths
0-4	28	1	3	4	1	1	38	41.8	3
5-9	7	1	1	1	5	1	16	17.6	1
10-14	2	0	0	2	3	0	7	7.7	1
15-19	6	0	0	1	1	0	8	8.8	0
20-29	2	1	1	0	0	0	4	4.4	0
30-39	5	0	2	0	0	0	7	7.7	0
40+	8	0	0	1	1	1	11	12.1	2
TOTAL	58	3	7	9	11	3	91	100.0	7
Percent									
Doses	65.9	3.4	8.0	10.2	12.5	_	100.0		

TABLE II  $\label{eq:paralytic poliomyelitis by age group and oral vaccination status \\ united states, 1964*$ 

			Total				
Age Group		ì	Monovalent		Triv	Total Cases	
оточр	Unvaccinated	1 type only	2 types	3 types	1 dose	2 doses	Cases
0-4	29	4 (1)	1 (1)	2	2 (1)	0	38 ( 3)
5-9	9	1	2(1)	2	2	0	16 (1)
10-14	3	0	0	4	0	0	7 (0)
15-19	4	3 (3)	0	1 (1)	0	0	8 (4)
20-29	3	1 (1)	0	0	0	0	4 (1)
30-39	4	0	2(2)	0	1(1)	0	7 (3)
40+	4	1 (1)	1 (1)	2 (2)	3 (3)	0	11 (7)
TOTAL	56 (0)	10 (6)	6 (5)	11 (3)	8 (5)	0	91 (19)

<sup>\*&</sup>lt;30 day cases are shown in parenthesis.

among individuals under 15 years of age who had previously received a primary series of oral poliomyelitis vaccine, either 3 doses of monovalent vaccine or 2 doses of trivalent vaccine. Of the 8 cases, 6 had received 3 or more doses of inactivated vaccine in addition to the oral vaccine. From the 6 cases in which virus isolation was attempted, 2 poliovirus isolates, both type 1, were recovered.

Of the 91 paralytic cases, 19 occurred within 30 days following the administration of oral poliomyelitis vaccine. Fifteen of these 19 cases were in the 15 year and older age groups and constitute half of the total of 30 cases which had been reported in individuals of 15 years or older. These vaccine associated cases were

the subject of an inquiry in July, 1964, by a special committee on oral poliomyelitis vaccine. 2,3

Because of the small number of paralytic cases, special efforts were made to obtain specimens for virus isolation and serologic study from all cases. Isolates were obtained from 51 of 77 fecal specimens examined for virus. Of these, 24 (47.0 percent) were type III, 21 (41.2 percent) type I, and 6 (11.9 percent) type II (see Table III). This contrasts with the distribution of isolates obtained during the period from 1958 to 1963 when type I isolates accounted for between 60 and 89 percent of the total each year and type III varied from 10 to 38 percent. The proportional increase in type III isolates reflects, in part, the lack of a major type I urban epidemic.

Table III FREQUENCY OF POLIOVIRUS ISOLATES RECOVERED FROM PARALYTIC CASES UNITED STATES, 1958-64

	Numbers	Numbers of Cases		\	'iruses lo	Percent of				
	Residual	Specimens	of Cases		Ty	/pe		Total Specified		
Year	Paralysis	Submitted*	Studied	1	11	111	Unk.	l	lI	Ill
1050	9.901	1 470	44.8	898	29	194	10	80.1	2.6	17.3
1958	3,301	1,479						88.8	0.5	
1959	5,472	2,775	50.7	1,881	10	228	23		0.0	10.8
1960	2,218	1,072	48.3	603	1	219	2	73.3	0.1	26.6
1961	829	481	58.0	231	6	145	0	60.5	1.6	37.9
1962	691	472	68.3	300	8	100	0	73.7	2.0	24.4
1963	336	242	72.0	160	6	31	0	81.2	3.0	15.7
1964	91	77	84.6	21	6	24	0	41.2	11.8	47.0

<sup>\*</sup>Includes all paralytic cases on which one or more fecal specimens were examined for virus isolation. State and local health department laboratories and laboratories in academic centers reported these results through State epidemiologists to the Poliomyelitis Surveillance Unit.

Table IV NATIONAL IMMUNIZATION SURVEY FINDINGS SEPTEMBER 1962, 1963, AND 1964 POLIOMYELITIS VACCINATION STATUS

		Oral Poliovaccine		Ina	ctivated Poliovaco	ine			
Age Group	Perc	ent Reporting 3 De	oses	Percent Reporting 3 or More Doses					
	1962	1963	1964	1962	1963	1964			
1-4	5.7	28.7	46.8	72.6	67.7	60.9			
5-9	5.7	33.6	56.4	85.8	84.3	80.9			
10-14	5.2	34.0	57.7	86.2	85.2	82.6			
15-19	4.1	28.2	49.8	79.2	78.8	77.7			
20-29	3.7	21.4	38.4	55.0	55.4	54.9			
30-39	4.3	23.1	41.9	44.7	43.8	43.5			
40-49	3.8	19.8	37.4	23.9	26.3	28.0			
1-49	4.6	26.4	46.2	61.3	60.7	59.3			

A survey of the poliomyelitis vaccination status of the U.S. population, conducted by the Bureau of the Census in September, 1964, reveals that 46 percent of the population had received 3 or more doses of oral vaccine and 59 percent had received 3 or more doses of inactivated vaccine (Table 4). During the past 3 years, the proportion vaccinated with the oral vaccine has risen sharply. During the same period of time the proportion of persons who reported having received 3 or more doses of inactivated poliomyelitis vaccine has remained essentially stable, although with some decrease in the youngest age groups. Previous trends in the use of inactivated vaccine have been documented.4,5

With two immunizing agents available, an estimate

of the population presumably protected against poliomyelitis would include both those who had received 4 or more doses of inactivated vaccine and those who received a primary oral vaccine series. Although a primary oral vaccine series normally consists of 3 doses of monovalent vaccine or 2 of the trivalent vaccine, it was possible during the survey to ascertain the number of doses but not the specific type of oral vaccine administered. The proportion of persons "adequately immunized" based on receipt of 4 or more doses of inactivated vaccine or 3 or more feedings of oral vaccine is depicted in Figure 4.\* A more detailed cross-classification for those 1-4 and 5-9 years of age is presented in Table 5. Based on the defi-

(Continued on back page) \*Figure 4, page 231.

FIGURE 3 GEOGRAPHIC DISTRIBUTION OF PARALYTIC POLIOMYELITIS IN THE UNITED STATES, 1964



• REPCRTED CASE

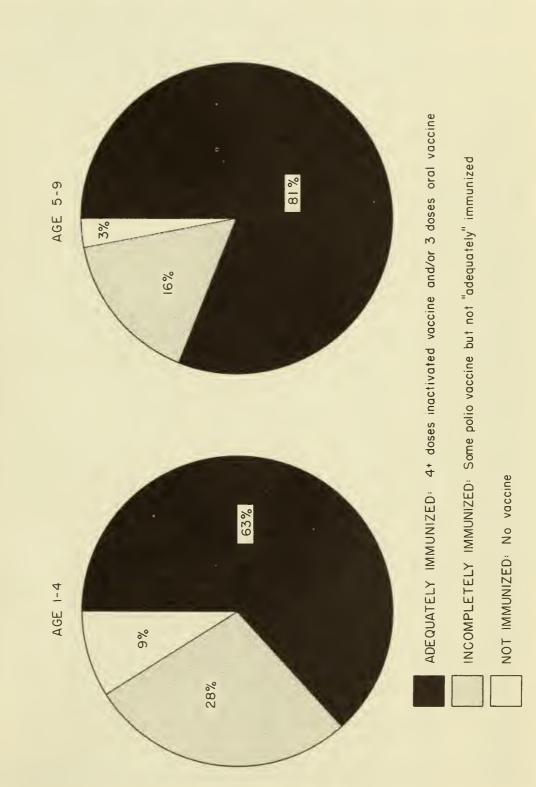
SOURCE: CDC POLIOMYELITIS SURVEILLANCE UNIT

TABLE V NUMBER (in 000's) OF CHILDREN AGE 1-4 AND 5-9 RECEIVING INACTIVATED AND ORAL POLIOVACCINE NATIONAL IMMUNIZATION SURVEY = 1961

Number of	Total		Number of (	OPV Doses		•••
IPV Inoculations	Children	3	2	1	0	Unknown
					Age 1-4	
4 or more	5,342	2,633	672	332	1,694	11
3	4,759	2,175	646	332	1,604	2
2	1,196	414	223	133	422	4
1	732	245	121	78	281	7
0	4,450	2,264	562	213	1,411	0
Unknown	111	28	3	0	11	69
TOTAL	16,590	7,759	2,227	1,088	5,423	93
4 or more	11,638	6,692	1,650	582	2,699	15
3	4,632	2,643	774	232	965	18
2	844	396	181	87	177	3
1	403	146	81	55	115	6
0	2,355	1,435	276	115	525	4
Unknown	228	18	8	5	6	191
TOTAL	20,100	11,330	2,970	1,076	4,487	237

FIGURE 4

POLIOMYELITIS IMMUNIZATION STATUS OF CHILDREN 1-4 AND 5-9 UNITED STATES, 1964



Source: 1964 U.S. Immunization survey

## Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JULY 10, 1965 AND JULY 4, 1964 (27th WEEK)

			Encepl	halitis			Poliom	yelitis	Dipht	heria		
	Asep	tic gitis		Post-Inf.	7	Total Case		-	Paralytic		Dipile	ner ra
Area	Henri	I	TITMELY	TOSE-III.		T				lative		C
	1065	1064	1065	1065	1065		ative	1065			1005	Cum.
	1965	1964	1965	1965 `	1965	1965	1964	1965	1965	1964	1965	1965
UNITED STATES	32	33	31	8	-	24	48	-	18	37	2	85
NEW ENGLAND	-	-	3	-	-	-	1	-	-	1	-	1
Maine	-	-	-	-	-	-	1	-	-	1	-	-
New Hampshire	-	_	-	-	-		-	-	-	_	_	_
Massachusetts			3	_	_	_	_	_		_	_	1
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
MIDDLE ATLANTIC	_	7	8	3	_	1	5	_	_	5	_	4
New York City	-	-	4	-	-	1	1	-	-	1		2
New York, Up-State.	-	4	2	1	-	-	2	-	-	2	-	-
New Jersey Pennsylvania	-	2 1	2	2	-	_	2	_	_	2 -	-	2
Tellioy Ivalization		1	_					_				_
EAST NORTH CENTRAL	2	5	4	2	-	1	7	-	-	6	-	3
OhioIndiana	1	-	-	-	-	-	2	-	_	2 -		1 2
Illinois	- 1	1	1 3	1	_	1	4	-	_	4		-
Michigan	-	4	- ,	1	-	-	1	-	-	-	-	-
Wisconsin	-	-	-	-	-	-	-	-	-	-	-	-
WEST NORTH CENTRAL	1	2	1		_	4	3	_	4	2	_	18
Minnesota	-	2	-	-	_	1	1	_	1	1	-	7
Iowa	1	-	-	-	-	-	-	-	-	-	-	1
Missouri	-	-	1	-	-	-	2	-	-	1	-	1 -
North Dakota	- 1	-	-	-	-	_	-	_	_	_	_	7
Nebraska	_	_	-	-	-	3	-	-	3	-	-	1
Kansas	-	-	-	-	-	-	-	-	-	-	-	1
SOUTH ATLANTIC	_	1	4	_	_	_	17	_	_	12	1	22
Delaware	-	-	-	_	-	_	- 1	_	_	-	_	-
Maryland	-	-	-	-	-	-	1	-	-	1	-	-
Dist. of Columbia	-	-	-	-	-	- 1	-	-	_	-		3
Virginia West Virginia	-	- 1	-	-			1	_	_	1		
North Carolina	-	-	1	-	-	-	8	-	-	4	- 1	1
South Carolina	-	-	-	-	-	-		-	-	-	1	1
Georgia Florida		-	3	-	-	-	1 6	_		1 5	_	11
	_		,	_	_					,		ŭ
EAST SOUTH CENTRAL	6	2	5	-	-	- :	4	-	-	3	1	13
Kentucky Tennessee	6	-	3	_	-	-	- 2	-	_	1	-	_
Alabama		2	_				2	_	_	2	1	12
Mississippi	-	-	2	- [	-	-	-	-	-	-	-	1
WEST SOUTH CENTRAL				,		10	2			3	_	19
Arkansas	8	_	2	1 -	-	10	3	-	8 -			2
Louisiana	1	-	-	1	-	1	-	-	1	-	-	2
Oklahoma	1	-	•	-	-	-	1	-	-	1	-	- 15
Texas	6	-	2	-	-	9	2	-	7	2	-	15
MOUNTAIN	-	3	1	-	-	5	6	-	3	3	-	-
Montana	-	-	-	-	-	-	-	-	_	-	-	-
Idaho	-	-		-	-	-	- 2	-	-	2		-
Colorado		2	1	-	_ [	-	1		_	1	_	
New Mexico	-	-	-	-	-	1	3	-	1	-	-	-
Arizona	-	1	-	-	-	4	-	-	2	-	-	-
Utah Nevada			_	_	-	_	-	-	-		_	
PACIFIC	15	13	3	2	-	3	2	-	3	2	-	5
Washington Oregon	1	1	1	-	-	2	1	-	2	1		1
California	11	12	2	2	_	1	1	-	1	1	-	4
Alaska	-	-	- (	-	-	-	-	-	-	-	-	-
Hawaii	3	-	-	-	-	-	-	-	-	-	-	
Puerto Rico		_	_	_	_	_	_ !	_	_		-	6

# Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

## FOR WEEKS ENDED

JULY 10, 1965 AND	JULY 4, 1964 (27th	WEEK) - Continued
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Area	1965 3 - - - -	Total incl. unk. 1965 471 34 7 3 - 14 6 4	Under 20 years 1965 161 12 3 1 - 4	20 years and over 1965 270	Cumul. Tot: 1965 18,644 1,134 214		1965	Cumula 1965	ative 1964	Teta 1965	Cum. 1965
UNITED STATES  NEW ENGLAND	1965	1965 471 34 7 3 - 14 6	1965 161 12 3 1 -	1965 270 19 4	1965 18,644 1,134	1964				1965	
UNITED STATES  NEW ENGLAND	3	471 34 7 3 - 14 6	161 12 3 1 -	270 19 4	18,644			1965	1964	1965	1965
NEW ENGLAND.  Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut MIDDLE ATLANTIC	-	34 7 3 - 14 6	12 3 1 - 4	19 4	1,134	22,000					
Maine  New Hampshire  Vermont  Massachusetts  Rhode Island  Connecticut  MIDDLE ATLANTIC	-	7 3 - 14 6	3 1 - 4	4			42	2,004	1,634	2	119
New Hampshire Vermont Massachusetts Rhode Island Connecticut	-	3 - 14 6	1 - 4			2,199	2	99	46	-	5
Vermont Massachusetts Rhode Island Connecticut		- 14 6	- 4		104	725 159	1 -	12	5	-	- 1
Rhode Island Connecticut MIDDLE ATLANTIC	-	6		-	63	274	-	2	1	-	-
Connecticut	-		2	10 4	436 145	459 120	-	34 14	19 7	-	3
			2	ī	172	462	1	32	13	-	1
New York City	-	75	24	51	3,269	4,994	2	266	196	-	8
,		21	5	16	622	725	-	45	27	-	-
New York, Up-State. New Jersey	_	20 12	4 4	16 8	1,311 599	2,267 895	2	69 73	54 69	-	3
Pennsylvania	-	22	11	11	737	1,107	-	79	46	-	5
EAST NORTH CENTRAL	2	85	37	44	3,602	3,340	3	260	224	-	11
OhioIndiana	-	15 10	7 4	8 5	1,023 304	888 297	1	71 36	61 34	_	1 5
Illinois	1	6	2	4	662	576	-	65	55	-	3
Michigan	-	47	20	27	1,381	1,341	-	56	49	-	-
Wisconsin	1	7	4	-	232	238	2	32	25	-	2
WEST NORTH CENTRAL	-	16	5	9	1,166	1,219	2	105	97	-	8
Minnesota		5	2	1	113 436	111 175	1 1	21 7	22 6	-	5
Missouri	-	5	2	3	233	314	-	47	48	-	1
North Dakota	-	-	-	-	17	45	-	7	10	-	-
South Dakota Nebraska	-	3	_	3	16 41	105 29	-	10	- 5	-	- 1
Kansas	-	3	1	2	310	440	-	11	6	-	-
SOUTH ATLANTIC	1	45	17	24	1,919	2,081	10	397	346	1	33
Delaware	-	-	-	-	59	41	-	5	6	-	-
Maryland	-	9 2	5	1	365 25	407 33	-	38	23 12	_	1 -
Virginia	1	2	î	-	452	312	1	47	39	1	7
West Virginia	-	3	-	3	289	336	-	23	24	-	1
North Carolina South Carolina	-	3	2 1	1 -	155 76	378 71	5 1	77 56	59 48		3
Georgia	-	î	-	1	66	48	-	51	44	-	4
Florida	-	24	7	14	432	455	3	94	91	-	14
EAST SOUTH CENTRAL	-	32	12	15	1,335	1,528	7	161	143	-	18
Kentucky Tennessee	-	13	5 2	4 6	457	635	3	66	48	-	4
Alabama	-	9	5	4	477 231	521 246		46 30	47 30	-	5 8
Mississippi	-	1	-	1	170	126	4	19	18	-	1
WEST SOUTH CENTRAL	-	51	19	31	1,600	1,626	3	287	202	-	21
Arkansas Louisiana	-	3	2	1 7	219	173	- 2	14	17	-	4
Oklahoma	-	9	2	7	274 38	372 87	2	161 17	100 6	-	3 1
Texas	-	39	15	23	1,069	994	1	95	79	-	13
MOUNTAIN	-	25	6	5	1,120	1,353	1	61	57	_	2
Montana	-	1	-	-	82	124	-	2	-	-	-
Idaho		2	-	-	159 32	146 45	1 -	8 4	3		-
Colorado	-	4	2	2	227	371	-	13	11	-	1
New Mexico	-	7	2	2	240	193	-	10	22	-	-
Arizona	-	8	- 2	- 1	218 156	312 121	-	16 6	4	-	1 -
Nevada	-	-	-	-	6	41	-	2	6 8	-	-
PACIFIC	-	108	29	72	3,499	3,660	12	368	323	1	13
Washington	-	7	-	6	286	423	-	28	25	-	-
Oregon	-	3	2	1	286	404	-	28	18	-	3
California		90 7	27	63	2,739 160	2,645 115	12	292 13	264 6	1 -	10
Hawaii	-	í	-	1	28	73	-	7	10	-	-
Puerto Rico	-	22	20	2	698	518	-	4	30	-	18

## Morbidity and Mortality Weekly Report

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JULY 10, 1965 AND JULY 4, 1964 (27th WEEK) - Continued

		Measles		Strept. Sore Th. & Scarlet Fev.	Tular	remia	Typhoic	Fever	Rabie Anim	
Area		Cumu1	ative			Cum.		Cum.		Cum.
	1065			1965	1965	1965	1965	1965	1965	1965
UNITED STATES	1965 2,599	1965 229,783	1964 445,950	4,304	1965	1965	1965	1983	45	2,503
				,		123	,			
NEW ENGLAND	103 12	36,355 2,742	15,405 2,633	413	_		-	3		30 3
New Hampshire	1	377	235	39	-	_	_	_		1
Vermont	40	1,188	2,163	18	-	-	-	-	-	24
Massachusetts	29	19,109	4,698	60	-	-	-	2	-	3
Rhode Island Connecticut	6 15	3,870 9,069	1,796 3,880	41 218	-	-	-	1 -	-	1
MIDDLE ATLANTIC	257	13,405	50,411	252	_	-	-	32	4	100
New York City	86	1,957	14,877	7	-	-	-	17	-	-
New York, up-State.	65	3,690	11,876	215	-	-	-	7	4	92
New Jersey Pennsylvania	60 46	2,279 5,479	11,852 11,806	27	-	-	-	2 6	-	8
EAST NORTH CENTRAL	1,100	51,931	99,340	385	_	9	1	26	6	352
Ohio	126	8,632	19,200	28	-		-	6	-	165
Indiana	15	1,678	22,209	110	-	3	-	9	1	34
Illinois	28	2,324	15,931	46	-	5	1	6	2	70
Michigan	438	25,293	27,793	159	<u>-</u>	- 1	-	3	2	39
	493	14,004	14,207	42	-	1	•	2	1	44
WEST NORTH CENTRAL	109	16,134	29,713	178	2	14	-	5	15	507
Minnesota		614	305	1	-	1	-	-	4	101
Iowa Missouri	46 25	8,921 2,513	23,071 1,001	18 38	- 2	10	-	1 4	4 1	149 70
North Dakota	38	3,528	4,519	97	-	-	_	-	3	27
South Dakota	-	109	5	5	_	1	_	-	2	37
Nebraska	-	449	812	-	-	-	-	-	-	29
Kansas	NN	NN	NN	19	-	2	-	-	1	94
SOUTH ATLANTIC	252	23,609	37,026	501	-	27	1	41	4	336
Delaware	4	495	375	-	-			4	-	-
Maryland Dist. of Columbia	22 1	1,036 64	3,357 352	29	-	_	-	12	-	3
Virginia	27	3,698	12,486	104	_	5	_	3	2	249
West Virginia	137	13,133	8,180	180	-	_	-	1	_	13
North Carolina	-	361	1,097	6	-	5	-	12	-	2
South Carolina	2	980	4,181	27	-	3	-	4	-	2
Georgia Florida	2 57	598 3,244	155 6,843	4 150	-	14	1	2 3	2 -	32 35
EAST SOUTH CENTRAL	103	13,261	66,273	774	_	15	1	19	10	600
Kentucky	52	2,373	18,199	142	-	3	-	6	2	58
Tennessee	39	7,575	23,275	553	-	11	-	6	7	529
Alabama	12	2,252 1,061	18,150 6,649	39 40	-	1 -	1	3	1 -	10 3
WEST SOUTH CENTRAL Arkansas	240 1	29,880 1,080	70,043	676	1	43	2	30	4	409
Louisiana	1	91	1,050 93	13	1 -	28 1	-	10 5	1	55 63
0klahoma	î	199	971	1	-	7	-	2	i	74
Texas	237	28,510	67,929	662	-	7	2	13	2	217
MOUNTAIN	264	18,826	17,157	579	2	12	-	13	1	47
Montana	42	3,583	2,712	12	1	2	-	-	-	3
Idaho	34	2,607	1,739	57	-	-	-	-	-	-
Wyoming Colorado	4	831	234	3	-	2	-	1 -	-	- 2
New Mexico	81 37	5,422 652	2,986 379	171 157	-		_	8	_	11
Arizona	36	1,146	6,340	94	-		_	4	1	30
Utah Nevada	30	4,393 192	1,808 959	78	1	8	-		=	1
PACIFIC	171	26,382	60,582	546	-	3	-	23	1	122
Washington Oregon	10 14	7,169	19,875	42	-	_	-	2 3	-	3
California	103	3,095 12,456	7,944 31,304	471	-	3		16	1	113
Alaska	1	138	1,063	6	-	-	_	10	-	2
Hawaii	43	3,524	396	21	-	-	-	1		-

Week No. 27

Table 4. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JULY 10, 1965

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

(	By place of	occurrenc	e and week	of fili	ng certificate. Excludea	fetal death	s)		
	All Causes Pneumonia			Under		All Causes		Pneumonia Under	
Area	All	65 years	and	1 year	Area	All	65 years	and	l year
11, 00	Ages	and over	Influenza	A11		Ages	and over	Influenza	All
			All Ages	Causes				All Ages	Causes
NEW ENGLAND:	654	374	27	45	SOUTH ATLANTIC:	1,026	519	39	87
Boston, Mass	209	103	4	18	Atlanta, Ga		46	8	9
Bridgeport, Conn	53	25	6	4	Baltimore, Md	248	128	7	24
Cambridge, Mass	24	14	-	1	Charlotte, N. C	35	13	1	4
Fall River, Mass	30 33	22 17	2	2 6	Jacksonville, Fla	55 92	19	1 2	4
Hartford, Conn Lowell, Mass	27	20	2	1	Miami, Fla Norfolk, Va	38	50 21	3	5 3
Lynn, Mass		12	2	1	Richmond, Va	75	35	1	7
New Bedford, Mass	23	18	-	1	Savannah, Ga	28	14	1	1
New Haven, Conn	55	31	-	4	St. Petersburg, Fla	84	67	3	3
Providence, R. I Somerville, Mass	67 7	43	1 -	4	Tampa, Fla	71 159	40 63	7 3	23
Springfield, Mass		23	4	î	Wilmington, Del	40	23	2	1
Waterbury, Conn	33	18	2	1					
Worcester, Mass	38	24	4	-	EAST SOUTH CENTRAL:	483	262	19	40
MIDDLE ATLANTICA	3,077	1 751	115	172	Birmingham, Ala Chattanooga, Tenn	77	44	-	6
MIDDLE ATLANTIC: Albany, N. Y		1,751 21	115	173 2	Knoxville, Tenn	40 24	24 13	1 1	4
Allentown, Pa	42	26	4	2	Louisville, Ky	98	57	7	7
Buffalo, N. Y	146	79	5	8	Memphis, Tenn	102	46	3	15
Camden, N. J	49	21	2	7	Mobile, Ala	39	23	1	1
Elizabeth, N. J Erie, Pa	31 35	18 15		2 4	Montgomery, Ala Nashville, Tenn	23	12	4	-
Jersey City, N. J	66	37	5	2	nashviile, lenn	80	43	2	6
Newark, N. J	<b>7</b> 5	39	2	4	WEST SOUTH CENTRAL:	860	442	31	72
New York City, N. Y	1,508	867	45	74	Austin, Tex	20	13	3	2
Paterson, N. J		14	1	3	Baton Rouge, La	12	7	-	2
Philadelphia, Pa Pittsburgh, Pa	530 156	320 81	14 4	34 6	Corpus Christi, Tex Dallas, Tex	17 126	12 62	4	2 8
Reading, Pa	51	30	5	2	El Paso, Tex	40	15	3	9
Rochester, N. Y	98	54	10	6	Fort Worth, Tex	59	31	_	4
Schenectady, N. Y	29	19	1	2	Houston, Tex	131	60	2	8
Scranton, Pa	33	20	4	-	Little Rock, Ark	40	22	3	6
Syracuse, N. Y Trenton, N. J	63 34	33 18	2 1	3 5	New Orleans, La Oklahoma City, Okla	197 34	94	10	17 1
Utica, N. Y	29	23	6	1	San Antonio, Tex	95	24 53	-	5
Yonkers, N. Y	29	16	4	6	Shreveport, La	41	25	3	3
DAGE NORTH GRANDAT.	0.075				Tulsa, Okla	48	24	1	5
EAST NORTH CENTRAL: Akron, Ohio	2,375 65	1,322 30	79	139	MOUNTAIN:	226	106	10	20
Canton, Ohio	56	35	3	2 2	Albuquerque, N. Mex	336 30	18 <b>6</b>	19 1	20
Chicago, Ill	667	363	33	34	Colorado Springs, Colo.	13	8	4	-
Cincinnati, Ohio	127	83	5	2	Denver, Colo	88	54	3	4
Cleveland, Ohio	179	86	1	13	Ogden, Utah	9	1	1	-
Columbus, Ohio Dayton, Ohio	111 84	56 44	2 2	8 5	Phoenix, Ariz Pueblo, Colo	88 24	53 13	2 2	5 2
Detroit, Mich	326	185	6	15	Salt Lake City, Utah	44	26	2	3
Evansville, Ind	48	36	1	3	Tucson, Ariz	40	22	4	3
Flint, Mich	39	26	3	5					
Fort Wayne, Ind Gary, Ind	37	24	4	4	PACIFIC:	1,243	694	37	77
Grand Rapids, Mich	35 56	14 36	4 1	1 4	Berkeley, Calif Fresno, Calif	23 48	14 27	1 3	1 9
Indianapolis, Ind	164	80	1	14	Glendale, Calif	25	19	-	1
Madison, Wis	23	9	-	1	Honolulu, Hawaii	42	19	1	6
Milwaukee, Wis	111	63	3	6	Long Beach, Calif	65	46	-	2
Peoria, Ill Rockford, Ill	40	23	- 4	6	Los Angeles, Calif	286	147	8	25
South Bend, Ind	31 18	26 12	3	1 -	Oakland, Calif Pasadena, Calif	56 30	34 21	1 -	2
Toledo, Ohio	105	63	3	8	Portland, Oreg	103	62	3	3
Youngstown, Ohio	53	28	-	5	Sacramento, Calif.*	50	28	1	3
LIPCT NODTH OPERS	7.07				San Diego, Calif	97	43	5	11
WEST NORTH CENTRAL: Des Moines, Iowa	727	423	14	43	San Francisco, Calif	150	77	6	6
Duluth, Minn	43 19	28 12	2 -	3	San Jose, Calif Seattle, Wash	39 133	25	2 /	1 2
Kansas City, Kans	46	18	3	7	Spokane, Wash	64	70 38	4 -	3 2
Kansas City, Mo	122	66	2	8	Tacoma, Wash	32	24	2	1
Lincoln, Nebr	22	18	1	-					
Minneapolis, Minn	125	67	-	8	Total	10,781	5,973	<b>3</b> 80	696
Omaha, Nebr St. Louis, Mo	64 193	45 116	1 1	4 5		mulative To	tale		
St. Paul, Minn	51	34	-	3	including report			revious we	eks
Wichita, Kans	42	19	4	4	The run right report		ror p		
					All Causes, All Ages 342,498				
					All Causes, Age 65 and over				
*Fetimate - based on average government of Jiministant					Pneumonia and Influenza			20 25	
*Estimate - based on average percent of divisional total.					All Causes, Under 1 Year of Age 20,254				

## UNIVERSITY OF FLORIDA 3 1262 08864 2136

## PARALYTIC POLIOMYELITIS - 1964 (Continued from page 229)

nitions above, 63 percent of children 1-4 years of age have been "adequately immunized" and 81 percent of children 5-9 years of age. Nine percent of the younger group and 3 percent of the older are recorded as never having received poliomyelitis vaccine of any type.

#### References

- 1. Poliomyelitis Surveillance Unit, Surveillance of Poliomyelitis in the United States, 1958-61. Pub. Health Rep. December 1962, Vol. 77, No. 12, p. 1011.
- 2. Oral Poliomyelitis Vaccine: Report of Special Advisory Committee on Oral Poliomyelitis Vaccine to the Surgeon General of the Public Health Service, July 17-18, 1964, JAMA 190:49 (Oct 5) 1964.
- 3. Henderson, D.A., Witte, John H., Morris, L. and Langmuir, Alexander D.: Paralytic disease associated with oral polio vaccines. JAMA 190:49 (Oct 5) 1964.
- 4. Sirken, M.S.: National participation trends, 1955-61, in the poliomyelitis vaccination program. Public Health Rep. 77:661-670, August 1962.
- 5. Morris, L.: Further analysis of national participation in the inactivated poliomyelitis program 1955-61. Public Health Rep. 79:469-480, June, 1964.

#### ERRATUM, Vol. 14, No. 26, P. 217:

#### Poliomyelitis

The total number of cases of poliomyelitis reported in the southwestern United States this year is 16 and not 17. Oklahoma was named in error when in fact the 16 cases reported include 4 in Arizona, one each in Louisiana, California and New Mexico, and 9 in Texas.



THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULA-TION OF 13,000 IS PUBLISHED BY THE COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA 30333.

CHIEF. COMMUNICABLE DISEASE CENTER CHIEF, EPIDEMIDLOGY BRANCH CHIEF, STATISTICS SECTION ASST. CHIEF, STATISTICS SECTION CHIEF, SUPVEILLANCE SECTION

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS DE INTERESTING DUTBREAKS OR CASES, SUCH ACCOUNTS SHOULD BE ADORESSED TO:

THE EDITOR
MORBIDITY AND MORTALITY WEEKLY REPORT
COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NDTE: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELE-GRAMS TO THE CDC BY THE INDIVIDUAL STATE HEALTH DEPART-MENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY: COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIOAY.

SYMBDLS:--DATA NOT AVAILABLE
- OUANTITY ZERD

THE CONSTRUCTION OF THE MORTALITY CURVES IS DESCRIBED IN VOL. 14, NO. 1.

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